KD-202D-3B、KD-202D-3C Examination lamp

USER MANUAL

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Content

Ⅰ. Brief introduction. 1

II. Performance Summarize. 1

III Main technical parameters. 1

IV Security tips and symbol instructions. 1

V Working Environment 2

VI Product interface. 2

Ⅶ Installation instructions. 4

Ⅷ Note. 5

Ⅸ Failure Judgment and Eliminating Methods. 6

Ⅹ After-sales service warranty 8

ⅪTransportation and storage conditions. 8

ⅫElectrical schematic diagram and components list. 9

Ⅰ. Brief introduction

Scope of application： Suitable for the auxiliary lighting in clinic, ENT, gynecology, dental and veterinary hospital.

Characteristic: The lamp uses the long-life and low-energy LED light source which has the characteristics of simple operation, easy installation, safety with low voltage, hard to be damaged.

Product component: Lamp holder, power box, lamp arm, fixed board etc.

II. Performance Summarize

It is designed with the system of cold lighting, wide voltage power supply which can adapt to the voltage of the countries all over the world.

The design and production of this light source strictly executes the first part of the safety requirements of medical electrical equipment GB4793.1-2007: general requirements are guaranteed in safety.

III Main technical parameters

Input voltage: 90V～240V 50Hz-60Hz
Color temperature: 6000K±500K
Center Luminance: 20000lx（700mm point）
Spot diameter: 100mm（700mm point）
Maximum wingspan length: 1800mm
Fluctuation displacement: 600mm
Lamp rotating angle: 300°
Led light bulb: 3W*12
Input power: ≤40W
Fuse protector: F3A-250V

IV Security tips and symbol instructions

1. When the check lamp is in use, you should always abide by the basic safety precautions in order to avoid fire, electric shock or the risk of injury,.

(1) Please read the instructions carefully, and operating according to the specifications and requirements.

(2) Before cleaning the light, please unplugged the power cord and close the total power supply.

(3)The maintenance, installation, commission of the light should be operated by professional personnel.

2. The introduction of the following symbols

Attention! Check the random documents

Protect the grounding

Disconnect the power

Connect the power

V Working Environment

A. Environmental temperature: -10℃～+40℃
B. Relative humidity: ≤75%
C. The atmosphere: 86.0~106.0kPa

VI Product interface

1. Basic interface of KD-202D-3C (picture 1)

1) Lamp dish: luminophor of the ceiling light
2) Lamp switch: switch control device of the ceiling light
3) Brightness adjustment: adjust the lamp brightness
4) Lamp installation sheath: adornment in connection of the lamp holder and the lamp arm
5) lifting arm: supporting arm to adjust the height of the lamp
6) Level arm: union piece of lifting arm and center pillar
7) Center pillar: fixed center column of the lamp
8) Elbow: union piece of the center pillar and level arm
9) Fixed ring of the cover: to fix the cover
10) Cover: cover of the power box
11) Fixed screw: fastening screw of the fixed tray installation
12) Dc power supply: power supply of the light
13) Fixed tray: fixture to connect to the roof

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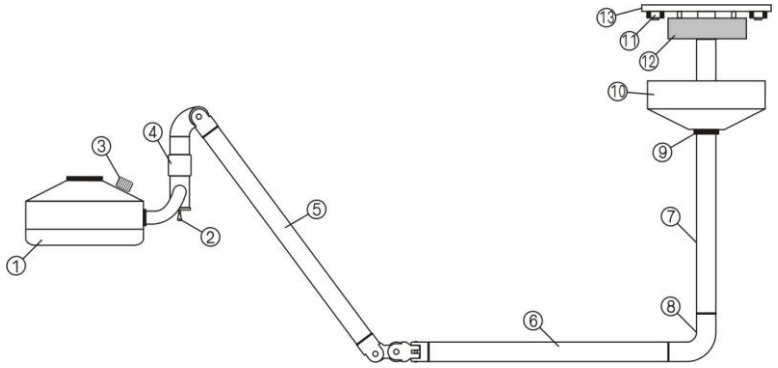


图 1　Picture 1

2. **Basic interface of KD-202D-3B (picture 2)**

1) Lamp dish: luminophor of the wall-hang lamp
2) Click switch: power switch of the wall-hang lamp
3) Brightness adjustment: adjust the lamp brightness
4) Rotating shaft of the lamp holder: the lamp holder can level turn 360 degrees
5) lifting arm: supporting arm to adjust the height of the lamp
6) Level arm: union piece of lifting arm and center pillar
7) Fixed screw: fastening screw of the fixed tray installation
8) Hang pin: to fix the power box
9) Power box: provide DC power supply
10) Fixed tray: fixture to connect to the wall
11) Total power switch: switch of the power supply box

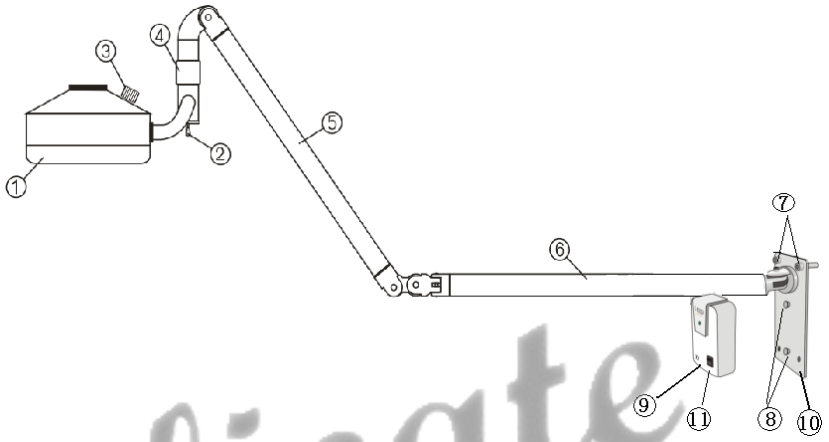
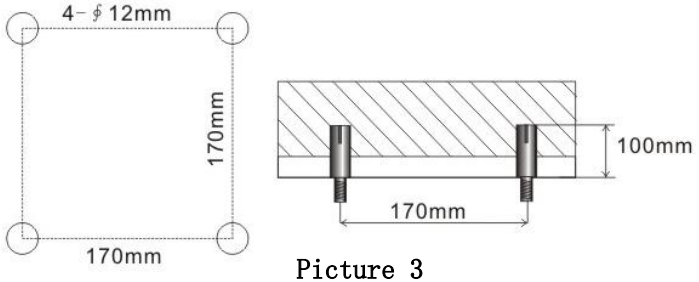


图 2　Picture 2

Ⅶ Installation instructions

1. Installation instructions of KD-202D-3B

First positioning the four fixed holes in the fixed tray(13) on the roof, dig 14 mm diameter installing hole, the depth should not less than 100 mm. install the expand screw, fix the lamp holder to the top(as shown in picture 3).



Picture 3

Note: You should choose 120*M12 expand screw when installing the ceiling light.

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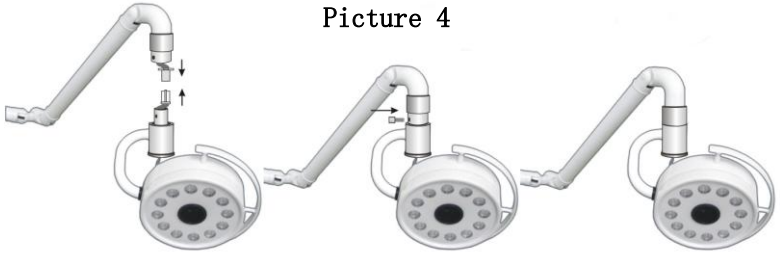
Confirm there is no problem with the lamp pole installation, connect the lamp holder and lamp arm according to the steps 1, 2, 3 in picture 4.

Picture 4

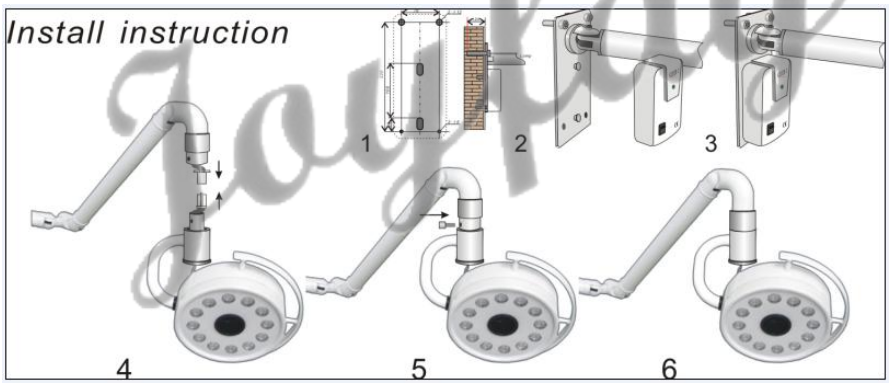


Step 1 Step 2 Step 3

2. Installation instructions of KD-202D-3C

First positioning the four fixed holes in the fixed tray(10) on the wall, dig 14 mm diameter installing hole, the depth should not less than 100 mm. Install the expand screw(7), fix the lamp holder to the wall.

Confirm there is no problem with the lamp pole installation, fix the power box(9) to the hang pin (8) according to the steps 4,5,6 in picture 5.



Picture5

Ⅷ Note

1. When installation, please assembly and reinforce according to the instruction of the technical requirements.

2. Before cleaning the light, please unplugged the power cable and close the total power supply.

3. Do not use liquid spray to clean the light.

4. The maintenance, installation, commission of the light should be operated by professional person.

5. Never put any item on the power cable.

Ⅸ Failure Judgment and Eliminating Methods

(It should be operated by the professionals)

1. Failure Judgment and Eliminating Methods of KD-202D-3C

Fault phenomena	Fault cause	Solution
Turn on the power switch, the lamp is not bright	Power lines have no electricity	Connect to the circuit where there is electricity supply
	The power cord is not connected well	Reconnect the power cord
	Not open the click switch(2)	Open the click switch(2)
	Brightness adjustment button is not open	Transfer the brightness adjusting button to the maximum
	Lamp holder and the lamp are not connected well	Connect them well again
	Fuse damage	Change the fuse
	System line fault	Contact with the after-sale service department for solution

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Other fault		Contact with the after-sale service department for solution
A bulb damage will influence the other 3 bulbs, please contact with the manufacturer, you will get the new bulb and bulb replacement manual. The replacement should be operated by professional or you can send it back to the manufacturer.		

2. Failure Judgment and Eliminating Methods of KD-202D-3B

Fault phenomena	Fault cause	Solution
Turn on the power switch, the indicator is not bright	Power lines have no electricity	Connect to the circuit where there is electricity supply
	The power cord is not connected well	Reconnect the power cord
	Fuse damage	Change the fuse
	System line fault	Contact with the after-sale service department for solution
Turn on the power switch, the indicator is bright but the lamp is not bright	Not open the click switch(2)	Open the click switch(2)
	Brightness adjustment button is not open	Transfer the brightness adjusting button to the maximum
	Lamp holder and the lamp are are not connected well	Connect them well again

Other fault		Contact with the after-sale service department for solution
A bulb damage will influence the other 3 bulbs, please contact with the manufacturer, you will get the new bulb and bulb replacement manual. The replacement should be operated by professional or you can send it back to the manufacturer.		

X After-sales service warranty

Warranty of 18 months, provide maintenance service all user's life.

◆In the warranty period, in normally using, the trouble because of the product quality, the consumer depends on the warranty slip and invoice enjoys free maintenance service.

◆The bulb of the lamp is LED and the normal life of LED bulb is about 50000 hours. Generally, you do not need to change them.

◆If the error caused by refitted or install other functions which is without our company's permission, is not within the scope of warranty.

◆If the model, number, release date is modified, deleted, moved or unrecognized, will not enjoy the maintenance service.

◆The error caused by human factor such as falling, squeezing, dip in, wetting, etc. is not within the scope of warranty.

◆Once receiving the goods, please sign and accept it after opening the package to inspect and confirm whether the instrument is crushed, scratched or not. Make sure there is no special unnumbered inside. If the goods are damaged and you did not inspect before sign it, It will be at your own risk.

XI Transportation and storage conditions

A. Environmental temperature: -40℃～55℃

B. Relative humidity: ≤70%

C. The atmosphere: 50Kpa～106Kpa

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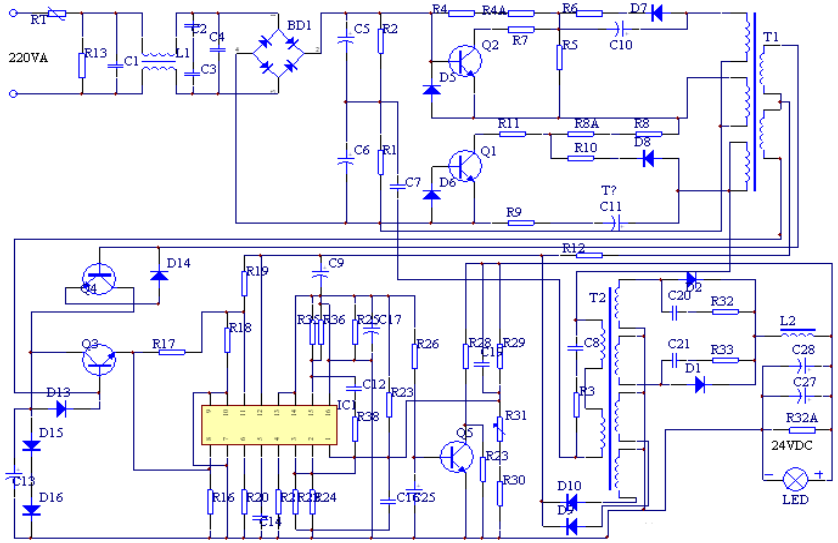
XII Electrical schematic diagram and components list



NO.	Material name	Specification	Quantity	Remark
1	Circuit board	7D1A	1	
2	Field-effect tube	SL20C20U	1	
3	Filter choke	220mH	1	
4	Inductance	470mH	1	
5	Capacitance	F103M/2KV	3	
6	Capacitance	22nj/T100V	1	
7	Capacitance	102M/2KV	1	
8	Electrolytic capacitor	50V/1uf	1	
9	Capacitance	222J/250V	1	
10	Capacitance	102J/100P	1	
11	Electrolytic	50V/4.7uf	3	
	capacitor			
12	Electrolytic capacitor	50V/22uf	1	
13	Electrolytic capacitor	50V/47uf	1	
14	Electrolytic capacitor	50V/1000uf	2	
15	Electrolytic capacitor	250V/470uf	2	
16	Capacitance	22nj/T100V	1	
17	Capacitance	102M/2KV	1	
18	Electrolytic capacitor	50V/1uf	1	
19	Capacitance	222J/250V	1	
20	Capacitance	102J/100P	1	
21	Electrolytic capacitor	50V/4.7uf	3	
22	Electrolytic capacitor	50V/22uf	1	
23	Electrolytic capacitor	50V/47uf	1	
24	Electrolytic capacitor	50V/1000uf	2	
25	Electrolytic capacitor	250V/470uf	2	
26	CBB capacitance	400V/105J	1	
27	Filter capacitance	0.1uf	2	
28	Resistance	150K/0.25VA	1	
29	Resistance	15Ω /0.25VA	2	
30	Resistance	120KΩ /0.25VA	1	
31	Resistance	12KΩ /0.25VA	1	

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32	Resistance	10KΩ /0.25VA	1	
33	Resistance	1KΩ /0.25VA	1	
34	Resistance	22KΩ /0.25VA	1	
35	Resistance	15KΩ /0.25VA	1	
36	Resistance	5.6KΩ /0.25VA	2	
37	Resistance	560Ω /0.25VA	1	
38	Resistance	1.2KΩ /0.25VA	1	
39	Resistance	3.9KΩ /0.25VA	1	
40	Resistance	680KΩ /0.25VA	1	
41	Resistance	1.5KΩ /0.25VA	1	
42	Resistance	100KΩ /0.25VA	1	
43	Resistance	4.7KΩ /0.25VA	1	
44	Resistance	220Ω /0.25VA	1	
45	Resistance	150KΩ /0.25VA	5	
46	Resistance	2Ω /0.25VA	2	
47	Resistance	22K/0.25VA	2	
48	Resistance	24Ω /0.25VA	2	
49	Resistance	3.9K/0.25VA	2	
50	Resistance	100Ω /3VA	1	
51	Resistance	680Ω /3VA	1	
52	Diode	F107	6	
53	Diode	IN4752	2	
54	Diode	IN4148	2	
55	Audion	1815	3	
56	Thermistor	5D-15	1	
57	Piezoresistor	10D471K	1	
58	Integrated circuit	LM494	1	
59	Rectifier bridge	KBU810	1	
60	lamp	LED	54	
61	Power socket		1	
62	Power line		1	
63	Fuse block		2	
64	Power switch		1	
65	storage battery	18AH,12V	1	

Any products may be updated or improved. The change of circuit or element specifications of the product will not with prior notice.

2012 edition

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Warranty card

Company name：			
Address		Phone No.	
Product name		Model	
Serial Number		Manufacture date	
Sale date			
Fault description:			
Remark: The warranty of our products is 18 months since the release date.			

(Please truthfully fill in this form, cut it according to the dotted line and send it back to our company, thank you for your cooperation)

Maintenance card

Company name：			
Address		Phone No.	
Product name		Model	
Serial Number		Manufacture date	
Sale date			
Fault description:			
Remark: You can enjoy seventy percent discount for the maintenance services even if you use this card over the quality assurance period.			

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